

ABSTRACT

A suspended abrasive waterjet narrow kerf cutting method is reconfigured to simultaneously drill multiple, closely-spaced holes in a target, including holes in confined non line-of-sight locations. Working fluid nozzles can be located on a flat or non-flat tool surface and arranged in uniform or non-uniform patterns, in an angled or perpendicular orientation, and in parallel or non-parallel arrangements. Individual nozzles or nozzle groups can be easily changed to provide increased or diminished working diameters, allowing control over the hole sizes and resultant airflow thru the drilled workpiece.

N:\Clients\PRATT and WHITNEY\IP00027\PATENT\Appln027 (clean copy).DOC